Bispirocyclo derivative and its application in electroluminescent material

Patent number:

CN1338499

Publication date:

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Applicant:

UNIV QINGHUA (CN)

Classification:

- international:

C09K11/06; C07D519/00

- european:

Application number:

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Priority number(s):

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Abstract of CN1338499

A bispirocyclo derivative used as electroluminescnet material individually or as luminous additive is disclosed, which has also current carrier transmission power. Its advantages include stronger fluorescence and high thermal and optical stability.

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T 474687-62-2P 474687-82-6P 474687-99-5P 474688-06-7P 474688-07-8P

(prepn. of electron transporting material for org. electroluminescent display)

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CCESSION NUMBER:

2003:74514 ZCAPLUS

OCUMENT NUMBER:

138:97990

'ITLE:

Bispirocyclic ring derivatives and organic

electroluminescent devices using them

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OURCE:

Faming Zhuanli Shenqing Gongkai Shuomingshu, 77

pp.

CODEN: CNXXEV

OCUMENT TYPE:

Patent

ANGUAGE:

Chinese

PAMILY ACC. NUM. COUNT:

1

'ATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1338499	Α	20020306	CN 2001-130676	200108 20 200108 200108
PRIORITY APPLN. INFO.:			CN 2001-130676	

OTHER SOURCE(S):

MARPAT 138:97990

RN

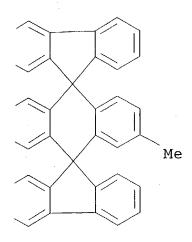
The invention relates to an org. electroluminescent device comprising a pair of electrodes sandwiching .gtoreq.1 layer(s) contg. .gtoreq.1 bisspircyclo ring derivs. I [R1-12 = H, or C1-24 or other atoms-contg. moiety; such as (iso)alkyl, OH, alkoxy, NO, CN, amino, S, halo, arom., (un)substituted heterocyclyl; X, Y = bond, O, S, NR, R-C-R (R = H or C1-24 or other atoms-contg. moiety)]. The Markush structures were claimed. The electroluminescent device was manufd. by vacuum vapor deposition of the synthetic electroluminescent material on In2O3-SnO2 film (as anode)-deposited glass sheet and then vacuum vapor deposition of Mg/Ag (10:1) layer (as cathode) on.

IT 484687-26-5 484687-27-6 484687-28-7 484687-29-8 484687-30-1 484687-31-2 484687-32-3 484687-33-4 484687-34-5 484687-35-6 484687-36-7

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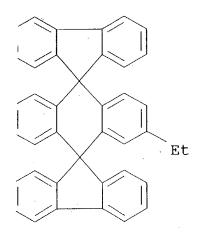
(novel bispirocyclo deriv. for org. electroluminescent devices) 484687-26-5 ZCAPLUS

CN Dispiro[9H-fluorene-9,9'(10'H)-anthracene-10',9''-[9H]fluorene], 2'-methyl- (9CI) (CA INDEX NAME)



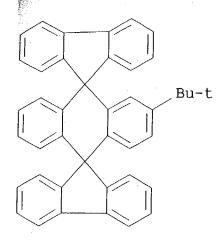
N 484687-27-6 ZCAPLUS

Dispiro[9H-fluorene-9,9'(10'H)-anthracene-10',9''-[9H]fluorene],
2'-ethyl- (9CI) (CA INDEX NAME)



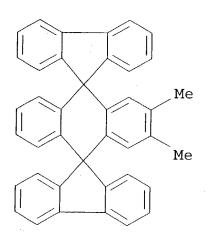
RN 484687-28-7 ZCAPLUS

CN Dispiro[9H-fluorene-9,9'(10'H)-anthracene-10',9''-[9H]fluorene], 2'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



RN 484687-29-8 ZCAPLUS

CN Dispiro[9H-fluorene-9,9'(10'H)-anthracene-10',9''-[9H]fluorene], 2',3'-dimethyl- (9CI) (CA INDEX NAME)



RN 484687-30-1 ZCAPLUS

CN Dispiro[9H-fluorene-9,9'(10'H)-anthracene-10',9''-[9H]fluorene], 2',3',6',7'-tetramethyl- (9CI) (CA INDEX NAME)

RN 484687-31-2 ZCAPLUS
CN Dispiro[9H-fluorene-9,9'(10'H)-anthracene-10',9''-[9H]fluorene],
2',3',6',7'-tetraphenyl- (9CI) (CA INDEX NAME)

RN 484687-32-3 ZCAPLUS

CN Dispiro[9H-fluorene-9,9'(10'H)-anthracene-10',9''-[9H]fluorene], 2',3',6',7'-tetra-1-naphthalenyl- (9CI) (CA INDEX NAME)

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Dispiro[9H-fluorene-9,9'(10'H)-anthracene-10',9''-[9H]fluorene],2',3',6',7'-tetra-2-naphthalenyl- (9CI) (CA INDEX NAME)

RN

484687-34-5 ZCAPLUS

CN Furan, 2,2',2'',2'''-dispiro[9H-fluorene-9,9'(10'H)-anthracene-10',9''-[9H]fluorene]-2',3',6',7'-tetrayltetrakis-(9CI) (CA INDEX NAME)

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N 484687-35-6 ZCAPLUS N Thiophene, 2,2',2'',2'''-dispiro[9H-fluorene-9,9'(10'H)-anthracene-10',9''-[9H]fluorene]-2',3',6',7'-tetrayltetrakis- (9CI) (CA INDEX

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484687-36-7 ZCAPLUS
Benzofuran, 2,2',2'',2'''-dispiro[9H-fluorene-9,9'(10'H)-anthracene10',9''-[9H]fluorene]-2',3',6',7'-tetrayltetrakis- (9CI) (CA INDEX

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 - 484687-29-8 484687-30-1 484687-31-2
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 - 484687-35-6 484687-36-7

(novel bispirocyclo deriv. for org. electroluminescent devices)

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